

# EMC & Inductive Solutions One-Click Selection Guide

The pictures are linked to the website.



www.we-online.com



## Ferrites for Cable Assembly

<b>STAR-FIX</b>	Impedance 1 Turn @ 25 MHz: 145 – 151 Ω Impedance 1 Turn @ 100 MHz: 246 – 270 Ω Cable diameter: 4.5 – 12.5 mm Frequency range: 5 – 2000 MHz
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<b>STAR-TEC</b>	Impedance 1 Turn @ 25 MHz: 98 – 176 Ω Impedance 1 Turn @ 100 MHz: 182 – 321 Ω Cable diameter: 3.5 – 12.5 mm Frequency range: 5 – 2000 MHz
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<b>STAR-GAP</b>	Impedance 1 Turn @ 25 MHz: 28 – 35 Ω Impedance 1 Turn @ 500 MHz: 345 – 400 Ω Cable diameter: 4.5 – 12.5 mm Frequency range: 100 – 2000 MHz
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<b>STAR-RING</b>	Impedance 1 Turn @ 25 MHz: 64 – 142 Ω Impedance 1 Turn @ 100 MHz: 119 – 327 Ω Cable diameter: 8 – 27 mm Frequency range: 5 – 2000 MHz
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<b>STAR-FLAT</b>	Impedance 1 Turn @ 25 MHz: 42 – 97 Ω Impedance 1 Turn @ 100 MHz: 114 – 194 Ω Cable poles: 26 – 50 Frequency range: 5 – 2000 MHz
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<b>Toroidal Ferrites</b>	Impedance 1 Turn @ 25 MHz: 25 – 110 Ω Impedance 1 Turn @ 100 MHz: 37 – 200 Ω Cable diameter: 3.3 – 35.5 mm Frequency range: 1 – 2000 MHz
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<b>Axial Ferrite Beads</b>	Impedance 1 Turn @ 25 MHz: 44 – 300 Ω Impedance 1 Turn @ 100 MHz: 70 – 451 Ω Cable diameter: 4.75 – 18 mm Frequency range: 1 – 2000 MHz
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## Ferrites for PCB Assembly

<b>WE-CBF</b>	Impedance @ 100 MHz: 5 – 2700 Ω DCR: 0.008 – 1.5 Ω Rated current: 50 – 6000 mA Frequency range: 6 – 2000 MHz Sizes: 0402 – 1812
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<b>WE-PBF</b>	Impedance @ 100 MHz: 42 – 98 Ω DCR: 0.6 – 0.9 mΩ Rated current: 6 A Frequency range: 6 – 2000 MHz
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<b>WE-PF</b>	DCR: 9 – 30 mΩ Rated current: 4.5 – 10 A Frequency range: 1 – 100 MHz
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<b>WE-CMS</b>	Impedance @ 25 MHz: 34 Ω Impedance @ 100 MHz: 52 Ω Frequency range: 10 – 1000 MHz
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<b>5-Hole SMD Ferrite Bead WE-SUKW</b>	Impedance @ 25 MHz: 272 – 425 Ω Impedance @ 100 MHz: 416 – 580 Ω Frequency range: 0.1 – 800 MHz
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<b>6-Hole Ferrite Bead WE-UKW</b>	Impedance @ 25 MHz: 145 – 920 Ω Impedance @ 100 MHz: 230 – 1240 Ω Frequency range: 0.1 – 500 MHz
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<b>WE-MLS</b>	Impedance @ 25 MHz: 136 – 292 Ω Impedance @ 100 MHz: 170 – 334 Ω Frequency range: 10 – 800 MHz
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## Filter & RF Inductors

<b>WE-MI, WE-PMI</b>	Inductance: 0.047 – 18 μH DCR: 0.09 – 2.1 Ω Rated current: 3 – 2000 mA Frequency range: 1 – 100 MHz
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<b>WE-GF</b>	Inductance: 0.1 – 1000 μH DCR: 0.32 – 50 Ω Rated current: 30 – 450 mA Frequency range: 0.1 – 100 MHz
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<b>WE-LQ</b>	Inductance: 1 – 1500 μH DCR: 0.08 – 38.5 Ω Rated current: 0.055 – 1.8 A Frequency range: 10 – 1000 MHz
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<b>WE-TI</b>	Inductance: 1 – 10000 μH DCR: 0.01 – 24 Ω Rated current: 0.14 – 7.5 A Frequency range: 0.01 – 90 MHz
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<b>WE-ZB</b>	Inductance: 4.7 – 120 μH DCR: 0.02 – 0.2 Ω Rated current: 0.5 A Frequency range: 1 – 500 MHz
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<b>WE-SD</b>	Inductance: 2 – 10 μH DCR: 1.7 – 33 mΩ Rated current: 2.5 – 15 A Frequency range: 0.01 – 90 MHz
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<b>WE-SDP</b>	Inductance: 1.2 – 4.2 μH DCR: 1.1 – 9.9 mΩ Rated current: 7.9 – 24 A Frequency range: 0.01 – 90 MHz
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## Power Inductors

<b>WE-FI, WE-SI</b>	Inductance: 8 – 1000 μH DCR: 0.008 – 0.7 Ω Rated current: 0.4 – 5 A Frequency range: 0.01 – 0.3 MHz
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<b>WE-GI</b>	Inductance: 33 – 470 μH DCR: 30 – 320 mΩ Rated current: 1 – 3 A Frequency range: 0.01 – 0.1 MHz
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<b>WE-TPC</b>	Inductance: 0.11 – 1500 μH DCR: 0.0065 – 9 Ω Rated current: 80 – 9000 mA Frequency range: 0.1 – 10 MHz
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<b>WE-PD</b>	Inductance: 0.47 – 1500 μH DCR: 0.003 – 9.44 Ω Rated current: 0.2 – 23.5 A Frequency range: 0.1 – 10 MHz
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<b>WE-PDF</b>	Inductance: 0.22 – 6.2 μH DCR: 10 – 30 Ω Rated current: 5.5 – 8.8 A Frequency range: 0.1 – 10 MHz
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<b>WE-PD2</b>	Inductance: 1 – 820 μH DCR: 0.0025 – 2.55 Ω Rated current: 0.32 – 10 A Frequency range: 0.1 – 10 MHz
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<b>WE-PD3</b>	Inductance: 1 – 1000 μH DCR: 0.027 – 3.2 Ω Rated current: 0.19 – 3.9 A Frequency range: 0.1 – 10 MHz
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## Power Inductors

<b>WE-PD4</b>	Inductance: 1 – 10000 μH DCR: 0.016 – 39 Ω Rated current: 0.07 – 18 A Frequency range: 0.1 – 10 MHz
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<b>WE-DD</b>	Inductance: 4.7 – 220 μH DCR: 0.028 – 0.65 Ω Rated current: 0.7 – 3.6 A Frequency range: 0.1 – 10 MHz
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## SMD High Current Inductors

<b>WE-HC</b>	Inductance: 0.095 – 4.5 μH DCR: 0.6 – 21.5 mΩ Rated current: 6 – 32 A Frequency range: 0.1 – 1 MHz
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<b>WE-HCB</b>	Inductance: 0.82 – 6.8 μH DCR: 0.54 – 4.1 mΩ Rated current: 0.5 A Frequency range: 0.1 – 3 MHz
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<b>WE-HCA</b>	Inductance: 0.13 – 10 μH DCR: 0.37 – 14.1 mΩ Rated current: 8 – 32 A Frequency range: 0.1 – 3 MHz
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<b>WE-HCFT</b>	Inductance: 10 – 33 μH DCR: 7.2 – 15.5 mΩ Rated current: 8.7 – 12.4 A Frequency range: 0.1 – 3 MHz
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<b>WE-HCM</b>	Inductance: 0.072 – 0.22 μH DCR: 0.235 – 0.325 mΩ Rated current: 30 – 31 A Frequency range: 0.1 – 3 MHz
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<b>WE-HCF</b>	Inductance: 0.47 – 8.2 μH DCR: 2.3 – 12 mΩ Rated current: 7.2 – 18 A Frequency range: 0.1 – 3 MHz
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## Common Mode Chokes

<b>WE-CNSW</b>	Impedance @ 100 MHz: 67 – 2200 Ω DCR: 0.25 – 1.2 Ω Rated current: 200 – 400 mA Frequency range: 10 – 1000 MHz
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<b>WE-SLM</b>	Inductance: 2x11 – 2x100 μH DCR: 0.18 – 0.58 Ω Rated current: 300 mA Frequency range: 9 – 600 MHz
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<b>WE-SL1</b>	Inductance: 2x10 – 2x330 μH DCR: 0.16 – 0.3 Ω Rated current: 300 mA Frequency range: 9 – 600 MHz
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<b>WE-SL2</b>	Inductance: 2 x 10 – 2 x6500 μH DCR: 0.08 – 0.95 Ω Rated current: 0.4 – 1.6 A Frequency range: 0.01 – 600 MHz
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<b>WE-SL3</b>	Inductance: 3x20 – 3x100 μH DCR: 0.16 – 0.28 Ω Rated current: 500 – 700 mA Frequency range: 9 – 600 MHz
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## Common Mode Chokes

<b>WE-SL5</b>	Inductance: 2x120 – 2x4700 μH DCR: 0.025 – 0.72 Ω Rated current: 350 – 2500 mA Frequency range: 9 – 600 MHz
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<b>WE-SL</b>	Inductance: 2x35 – 4x1000 μH DCR: 0.035 – 0.4 Ω Rated current: 0.35 – 2.7 A Frequency range: 0.01 – 600 MHz
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<b>WE-VB</b>	Inductance: 15 – 80 μH DCR: 0.035 – 0.060 Ω Rated current: 0.5 A Frequency range: 1 – 500 MHz
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<b>WE-CMB</b>	Inductance: 0.5 – 39 mH DCR: 1.7 – 3000 mΩ Rated current: 0.3 – 35 A Frequency range: 0.1 – 500 MHz
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<b>WE-CMB NiZn</b>	Inductance: 14 – 100 μH DCR: 15 – 80 mΩ Rated current: 1.5 – 4 A Frequency range: 4 – 1000 MHz
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<b>WE-LF</b>	Inductance: 0.4 – 50 mH DCR: 0.02 – 2.6 Ω Rated current: 0.3 – 6 A Frequency range: 0.1 – 500 MHz
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<b>WE-LF SMD</b>	Inductance: 0.7 – 47 mH DCR: 0.03 – 2.6 Ω Rated current: 0.3 – 4 A Frequency range: 0.1 – 500 MHz
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<b>WE-FC</b>	Inductance: 0.82 – 33 mH DCR: 0.065 – 2 Ω Rated current: 0.3 – 2 A Frequency range: 0.01 – 20 MHz
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## Transformers

<b>WE-LAN</b>	compliant with IEEE 802.3 standards for Ethernet, Powerover Ethernet, 1 Gigabit Ethernet
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<b>WE-LAN HV</b>	Compliant with IEEE802.3 standards 4 kV Hipot test
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<b>WE-LAN PoE+</b>	Compliant with IEEE802.3 & IEEE802.3at standards 720 mA current capability
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<b>WE-LAN RJ45</b>	for ADSL Modems, LAN, embedded PCs, Hubs, Routers and Switches
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<b>WE-AMT</b>	for Analog Modems
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<b>WE-ISDN</b>	compliant with ITUG.703 ISDN-Primary rate recommendations
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## Transformers

<b>WE-DSL</b>	compliant with IEC905 for ADSL, ADSL 2+, HDSL, SHDSL, UDSL applications
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<b>WE-FLEX</b>	suitable for all switch mode power supply topologies like: Buck-Converter, Boost-Converter, SEPIC-Converter, Flyback-Converter, Forward-Converter and Push-Pull-Converter
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<b>WE-PoE</b>	suitable for Power over Ethernet ICs
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<b>WE-PoE+</b>	Compliant with the 30W PoE+ objectives of IEEE802.3at Suitable for PoE+ powered devices
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<b>WE-FB</b>	for LT3573 from Linear Technology
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<b>WE-UNIT</b>	for Switch Mode Power Supply
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<b>WE-CST</b>	for Switch Mode Power Supply and AC current detection
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## RF Inductors

<b>WE-KI, WE-RFI, WE-RFH</b>	Inductance: 1 – 47000 nH Sizes: 0402, 0603, 0805, 1008 Frequency range: 90 – 5000 MHz
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<b>WE-TCI</b>	Inductance: 1 – 68 nH Sizes: 0402, 0603 Frequency range: 90 – 5000 MHz
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<b>WE-MK</b>	Inductance: 1 – 220 Sizes: 0201, 0402, 0603 Frequency range: 70 – >10000 MHz
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## LTCC Components

<b>WE-LPF</b>	Frequency range: 902 – 5875 MHz Sizes: 0603, 0805
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<b>WE-BPF</b>	Frequency range: 2400 – 5920 MHz Sizes: 0805, 1008
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<b>WE-BAL</b>	Frequency range: 1400 – 5875 MHz Sizes: 0603, 0805
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## LTCC Components

<b>WE-BPFB</b>	Frequency range: 2400 – 2500 MHz Size: 1008
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<b>WE-MCA</b>	Frequency range: 868 – 5875 MHz
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## Varistors

<b>WE-VS</b>	Operating voltage: 3.3 – 85 V <sub>DC</sub> I <sub>max</sub> : 20 – 1200 A W <sub>max</sub> : 0.02 – 12 J C <sub>max</sub> : 70 – 8900 pF Size: 0402 – 2220
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<b>WE-VD</b>	Operating Voltage: 4 – 1000 V <sub>RMS</sub> Diameters: 5 – 20 mm I <sub>max</sub> : 0.1 – 10 kA W <sub>max</sub> : 1.2 – 695 J Reference for UL/CSA/VDE
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<b>ESD Suppressor WE-VE/WE-VEA</b>	Operating Voltage: 5 – 24 V <sub>DC</sub> Capacitance @ 1 MHz: 0.2 – 100 pF Size: 0201 – 0805/0508 – 0612
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<b>WE-VE femtoF</b>	Operating Voltage: 6 – 26 V <sub>DC</sub> C <sub>max</sub> : 0.05 pF Size: 0402 – 0603
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<b>WE-TVS</b>	V <sub>max</sub> : 5 V <sub>DC</sub> C <sub>max</sub> : 0.55 – 55 pF Channels: 2 – 4 Uni/Bidirectional
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## EMC Shielding Material

<b>EMC Shielding Material</b>	Conductive shielding gasket, earthing belts, conductive foam, EMI shielding tape, shielding tapes
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## Connectors

<b>WE/RI Connectors</b>	Wire-to-Board Board-to-Board
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<b>WEASSEMBLY</b>	Power Elements, Bushes & Shanks, Power Elements 90 °C
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more than you expect